A novel cephem compound of the formula:

t Y 10 c

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wherein R^1 is a phosphono group or a group convertible to a phosphono group; R^2 is a hydrogen atom or a group having a linkage through a carbon atom; each of Q and X is a nitrogen atom or CH; Y is S, O or CH_2 ; n is O or O; one of O0 and O1 and O1 is a pyridinium group which may be substituted and the other is a hydrogen atom or hydrocarbon group which may be substituted, or O0 and O0 and O1 taken together may form a quaternalized nitrogen-containing heterocyclic ring which may be substituted, or its ester or its salt, which has a superior anti-bacterial activity, stability, absorbability, etc., a production thereof and a pharmaceutical composition containing it, is provided.